

To: Arguto, William[Arguto.William@epa.gov]
From: binetti, victoria
Sent: Fri 2/14/2014 4:00:15 PM
Subject: FW: WV - formaldehyde presence reported in water tests

I guess this is what I was remembering. I think you've got this covered.--Vicky

From: Arguto, William
Sent: Wednesday, January 29, 2014 5:14 PM
To: binetti, victoria
Subject: Fw: WV - formaldehyde presence reported in water tests

From: Caporale, Cynthia
Sent: Wednesday, January 29, 2014 4:52:03 PM
To: Arguto, William
Subject: FW: WV - formaldehyde presence reported in water tests

FYI

From: Warner, Sue
Sent: Wednesday, January 29, 2014 4:50 PM
To: Caporale, Cynthia; R3 ESC-LB
Cc: Slayton, Joe; Foreman, Fred
Subject: RE: WV - formaldehyde presence reported in water tests

Formaldehyde (also known as methanal) is formed by the oxidation of methanol. Methanol is a component of the crude MCHM. Finished water samples could contain chlorine, an oxidizing agent.

From: Caporale, Cynthia
Sent: Wednesday, January 29, 2014 4:20 PM
To: R3 ESC-LB
Cc: Slayton, Joe; Foreman, Fred
Subject: FW: WV - formaldehyde presence reported in water tests

Formaldehyde has popped up as an issue due to an article that includes a statement from a Marshall University professor indicating detection of formaldehyde in a finished DW sample. We have been requested to provide information on methodology, detection limits and any knowledge we have on possible breakdown components for MCHM or PPh and whether formaldehyde is a potential breakdown product. We have also been asked to find out the method and detection limit used by the University (Thank you Dr. Gundersen for taking that task!).

I would like to have a meeting tomorrow to touch base on where we are with the various analyses of the tank sample and discuss preparation for incoming samples scheduled for later this week. I will send out a meeting invite for 10:30am tomorrow.

For those of you not involved in the actual analysis you are still welcome to attend and share your thoughts and ideas but this meeting is not required.

A big thank you goes to Eric, Jennie, Adam, Sue Warner, Peggy, Robin, Joe, Ron and John for making time this week to expeditiously work on the tank sample. Hopefully I didn't miss anyone.

From: Miller, Linda
Sent: Wednesday, January 29, 2014 3:31 PM
To: Caporale, Cynthia
Subject: FW: WV - formaldehyde presence reported in water tests

From: Miller, Linda
Sent: Wednesday, January 29, 2014 3:30 PM
To: Ferrell, Mark; Burns, Francis; Arguto, William; Wisniewski, Patti-Kay; Hodgkiss, Kathy; Casillas, Laura; Snyder, Raquel; Distefano, Nichole; Capacasa, Jon; Pomponio, John; White, Terri-A; Seneca, Roy; Heron, Donna; Smith, Bonnie; Forren, John
Subject: RE: WV - formaldehyde presence reported in water tests

Third article has important perspective from Secretary Huffman. Mark - thanks so much for keeping us all on the pulse of things there! Linda

UPDATED: DEP officials unaware of connection between formaldehyde and spill

Marshall professor says 'what we know scares us, and we know there's a lot more we don't know'

by Dave Boucher

Daily Mail Capitol Bureau Chief

Advertiser

Updated (2:30 p.m.): The head of the state Department of Environmental Protection questioned a report that formaldehyde found in Charleston tap water is connected to the recent chemical spill.

"We are not aware of formaldehyde being an issue related to the tank spill," DEP Secretary Randy Huffman said Wednesday afternoon.

"Formaldehyde is in a lot of stuff, and so I'm not sure, we're unaware of any relationship...of the formaldehyde to the tanks at Freedom," he said.

"I absolutely don't want to downplay the significance for the potential of formaldehyde in any way."

Earlier Wednesday Dr. Scott Simonton, vice chairman of the West Virginia Environmental Quality Board and a Marshall University professor, told lawmakers he had test results showing formaldehyde in water from a restaurant in downtown Charleston.

At least 10,000 gallons of crude MCHM and PPH spilled from a faulty storage tank owned by Freedom Industries near the Elk River. Officials found the leak Jan. 9, but experts believe it would have taken at least 20 hours for that amount of chemical to leak from the tank.

The results for three different samples taken Jan. 13 at Vandalia Grille show 32 or 33 micrograms per liter of formaldehyde in the water. Simonton said results from many other samples taken from many other places are still being processed.

"It scares me a lot, because it's a known human carcinogen, so any exposure, no matter how slight, is going to increase cancer risks" Simonson said after the legislative meeting.

"Now, that increased risk can be terribly, terribly small. The problem is, we're seeing it in water, we don't know what the concentration is in air."

Huffman questioned the ability for Simonton to connect any formaldehyde at the restaurant to the spill.

"He turned on a spigot, and he measured formaldehyde from a spigot in a restaurant...from a distribution system. It needs to be traced back from there to a potential source," Huffman said.

He explained what he meant later in the interview.

"The way you do that is to start backwards from where you found the material. It may be unique to the restaurant, it may be unique to West Virginia American Water. If it is something that they're getting, that West Virginia American Water is getting in their intake, then certainly we will assist with that," Huffman said.

Once the crude MCHM comes in contact with anything--water, sunlight, skin--it can breakdown, Simonton told lawmakers. One of those products is methanol, and formaldehyde is a product of methanol, he said.

He acknowledged formaldehyde could come from anywhere, but it's very likely these results are directly related to the spill.

"If we go out to the extreme, it could have been put there by martians," Simonton said.

"But the most likely scenario is a breakdown of MCHM."

State and water company officials have only discussed testing for crude MCHM and PPH. Huffman experts need to have an idea of what to test for in order to test for it.

Any further examination regarding formaldehyde in the water falls under the purview of state health officials, he said.

"If they think there's a raw source of formaldehyde in the river or something, that's obviously something we would get engaged in," Huffman said.

"But the breakdown of the chemical when it gets into the water system and whatever it turns into, that would clearly be something that the health department regulates."

A spokeswoman for the state Department of Health and Human Resources did not immediately respond to a request for comment.

Linda Miller

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From: Ferrell, Mark

Sent: Wednesday, January 29, 2014 2:35 PM

To: Burns, Francis; Arguto, William; Wisniewski, Patti-Kay; Hodgkiss, Kathy; Casillas, Laura; Snyder, Raquel; Distefano, Nichole; Capacasa, Jon; Pomponio, John; Miller, Linda; White, Terri-A; Seneca, Roy; Heron, Donna; Smith, Bonnie; Forren, John

Subject: WV - formaldehyde presence reported in water tests

Time

<http://nation.time.com/2014/01/29/west-virginia-official-people-are-inhaling-formaldehyde/>

Gazette

<http://www.wvgazette.com/News/201401290053>

Daily Mail

<http://www.charlestondailyemail.com/News/201401290055>

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